

Message

From: Hamilton, John (IHS/PHX) [John.Hamilton@ihs.gov]
Sent: 1/7/2014 3:32:17 PM
To: Suzanne Jamison [sznjmsn@gilanet.com]
CC: King Honani [csasipaulovi@gmail.com]; Lee, Bessie [Lee.Bessie@epa.gov]; Hughes, Adam (IHS/PHX) [Adam.Hughes@ihs.gov]; lpuhuyesva@hopi.nsn.us
Subject: RE: Summary - Hopi Drinking Water Infrastructure Projects Call, December 5, 2013

Hi Suzanne,

Thanks for your comments. It's my understanding Lionel is working with Upper Mishongnovi village and will continue to seek active participation of the village in the HAMP planning process. On 12/31/13, Adam mailed a project "land use concurrence" letter and an aerial showing HAMP pipeline, water storage tank and other facility locations to Lionel, who will work with the village on these issues. We will keep you informed as this develops, since the two villages are contiguous and have a history together in the operation of the water system(s).

Your PER comments were received by IHS and are being considered and incorporated as appropriate in the PER. We will plan to discuss your comments with your village leadership as the PER is completed.

We will keep you and King Honani informed of a funding meeting, if the planning group decides this meeting would be helpful, which seems likely..

John

From: Suzanne Jamison [mailto:sznjmsn@gilanet.com]
Sent: Sunday, December 22, 2013 7:58 PM
To: Hamilton, John (IHS/PHX)
Cc: King Honani; Bessie Lee; Hughes, Adam (IHS/PHX)
Subject: Re: Summary - Hopi Drinking Water Infrastructure Projects Call, December 5, 2013

Dear John,

Thank you for the updates, which are both thorough and useful.

However, I noticed that Mishongnovi was not included, although the narrative stated that IHS and EPA had received water usage and operational costs from all the villages except FMCV. Please remember that Upper Mishongnovi will need its own separate master meter for the HAMP water and its own account with the Hopi Water Utility.

Most Lower Mishongnovi scattered housing residents have chosen to sign service line agreements with SWA, are metered, and are paying SWA for drinking water service. Sipaulovi is willing to continue serving these residents.

This issue is discussed in the comments that Sipaulovi sent to IHS over a year ago in response to the DRAFT PER. Please confirm that IHS and EPA are dealing directly with Mishongnovi village government for providing HAMP water service to Upper Mishongnovi on a separate meter and separate billing system.

As an integral part of Sipaulovi village, SWA is eligible to apply to USDA RD for upgrading its existing drinking water system. It does not need to go through the Tribe. Sipaulovi is current on its audits and financial system management. If approved, the USDA award is expected to be a combination grant and loan. Sipaulovi will be reviewing the SOQs of the six firms the first part of January.

We all need to strategize about the ICDBG application, other funding sources, and which entity is the most likely eligible applicant for each source. Please keep King and me informed about the funding meeting. I am in Bolivia from mid-Feb through mid-May, but I can call into a toll-free conference call number via skype.

best regards for a joyful holiday! sj

On 20 Dec 13, at 1:45 PM, Hamilton, John (IHS/PHX) wrote:

Next Call - The next call will be on Thursday, January 9, 2014 at 9:30 a.m. Hopi time (MST).

Participating in the December 5, 2013 call were:

Hopi Water Resources Program – Uberta Mowa

Upper Moenkopi – Randy Wolff

Sipaulovi – King Honani, Suzanne Jamison, Mafa Natoni, and new Village Board members Jerry P., Bill K., and Bobbie

Hopi Tribal Housing Authority - Wayne Taylor

HUD – Cristal Quinn

BIA – Melvin Todacheene

IHS - Robert Lorenz, Pete Mitchell, Brad Rae, Adam Hughes, and Jesse DeCoteau

Consultants – Kerry Brough, Mike Janes, Fred Tack, Lynette Pollari and Bill Bettenberg

USEPA - Bessie Lee and John Hamilton

Hopi Arsenic Mitigation Project (HAMP)

- The first new well for the HAMP, well #2, is substantially complete. Test pumping was completed with an approximate yield of 300 gallon per minute, which is about what was expected based on the hydro-geologic study. Final water samples were collected and the results will be available in late December. From all preliminary indications, the water quality is good and arsenic levels are well under the maximum contaminant level of 10 parts per billion.
- Drilling of well #3 is ongoing, with the current depth approximately -2300 feet. After this call, there have been serious problems with drilling, and it's likely the original test bore hole will be abandoned as a result of drilling equipment problems. While this shouldn't result in increased cost to the HAMP, it may delay the drilling schedule by at least one month. We should have better information on the problems with the drilling and the best solution on the next conference call.
- Adam forwarded the last project schedule to everyone that had requested the schedule on the previous conference call. The schedule is highly dependent on the Department of Interior's decision regarding joining the HAMP and contributing to the planning and capital costs. While BIA/BIE involvement has been anticipated since summer, the agencies have not yet decided or committed. Work continues on a draft Memorandum of Understanding, but the Interior decision process remains difficult to forecast. IHS and Hopi WRP would like to complete the PER/SP and EA soon, so the Tribe can apply for funding through the USDA-RD grant and loan process. IHS plans to talk to Tribal leadership regarding completion of these documents without including BIA/BIE infrastructure, with the understanding this could be added later if Interior commits to joining the HAMP.
- Work on the Strategic Plan continues and all the villages except FMCV have provided both water usage and operational costs. IHS is working with FMCV and hopes to have this information soon. Both Kerry and IHS engineering staff plan to meet with the villages after the Plan is updated to discuss anticipated HAMP operational costs. The only progress on finalizing the EA is the completion of cultural surveys by HCPO for new water storage tank locations. Unless we move forward with planning without BIA/BIE, the EA should be completed 7 months after Interior decides to join the HAMP and commits planning funds.
- IHS has been working with the Hopi Housing Authority (HHA) to determine if they can partner financially in the HAMP, since homes under HHA management will be served. We understand that HHA funds are not available for planning costs related to HAMP, but they may be available to fund a share of construction costs. Wayne Taylor

will consult with both HUD and the HHA Board as they consider direct financial participation in the project. It's understood that HUD housing funds that may be available for the project, would be applied for through the HHA.

- The HUD ICDBG grant program could fund a portion of the HAMP, although we've planned that this funding would be available later in the project, when the HUD funds can be used for direct water service to Hopi communities. Hopi is eligible for up to \$2.2 million, and the Tribe can apply in 2014 if eligible infrastructure would be built in 2015. The Village of Sipaulovi water infrastructure a project grant application, which had included some HAMP water mains, was not funded in 2013 primarily because the Tribe is not current on the Single Audit Act. We understand the Tribe is in the process of completing the 2010 and 2012 audits through a CPA firm. HUD plans to meet by conference call with Sipaulovi and IHS on Wednesday, December 18 at 1:00 PM to "debrief" on the 2013 application. IHS assisted the Village on the 2013 application and they have been asked to help again on a 2014 ICDBG application.
- The Village of Sipaulovi also issued an engineering request for proposals to complete a PER for potential USDA-RD funding of water improvements and they received six responses. The Village plans to apply directly as a Village, without working through the Tribe, based on the "autonomous" status of the Hopi villages. Will the Tribe's audit issues have an impact on eligibility and competitiveness?
- There was some discussion of arranging another interagency funding meeting for the HAMP. We can discuss this with USDA-RD on next month's conference call.

Shungopavi

- The interior paint system on the new elevated water storage tank failed, probably as a result of condensation on the steel during the painting process. The tank contractor, Caldwell Tank, has agreed to return and repaint the interior when the weather warms. During the recoating process, the community will need an alternate pressure system, so it's likely a temporary hydro-pneumatic system or a variable speed booster station will be utilized. The cost is estimated to be under \$10,000. Funds remaining in the EPA grant funded project will be used for the temporary pressure system.
- IHS is working on the project documents for the \$124,000 Shungopavi HAMP water line extension, which will be installed north along SR 264. The above temporary pressure system will decrease funds available for this line to a minor extent.

Moenkopi Wastewater Facility

- IHS facilitated and RCAC conducted a very successful training course for the wastewater treatment plant operators. RCAC circuit riders, Pablo Figueroa and David Wallace, both Class 4 operators, were great trainers.
- RCAC interviewed two applicants for the eastern AZ circuit rider (vice Jay Charnholm).
- Congratulations to Mr. Hubert Lewis, who was elected Governor of Upper Moenkopi.
- The treatment plant seems to be operating as designed and in compliance with the NPDES permit. Some remodeling of the interior plant building is planned to address mold problems.

Moenkopi Drinking Water Facility

- MDC is still operating both the water and wastewater treatment, distribution and collection systems. MUA collects user fees and then provides some financial support to MDC. GHD assists with compliance reporting for both the water and sewer systems.
- The new water storage tank is complete and a pinhole (drip) leak was identified in caulking near the base of the bolted tank. This could resolve itself or may need a minor repair when the weather warms. IHS requests "as-built" drawings of the tank and piping.
- Some water distribution lines may need replacement due to cracks.
- A clean-in-place of the RO treatment modules was successfully completed. The TDS is higher than optimum, but should be fine for the community, since RO water is blended with well water.

- Since water demand is low in the winter, MDC plans to reduce usage of the RO treatment, since the unit cost of water is much higher than water from the three wells. In order to keep the RO in good operating condition, during this time, Kerry recommended operating the plant once every three days as a minimum. This should preclude a very expensive startup process in the Spring.
- A recent water sample indicated higher radionuclides, so EPA will work with the community to increase sampling. This should help determine if this is an ongoing problem or an anomaly. Kerry said this may be a lab "conversion issue", rather than an actual MCL violation.
- MDC is accessing how many water meters are needed and will plan to get them installed. EPA suggested meter reading be initiated immediately, even if the remaining meters are not yet installed to get background data on water use and to determine if there are significant leaks in the distribution system.

John Hamilton, PE
EPA Engineering Consultant